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SEQUENCE LISTING

<110> Mitchell, Lloyd G.  
Garcia-Blanco, Mariano A.  
Puttaraju, Madaiah  
Mansfield, Gary S.

<120> METHODS AND COMPOSITIONS FOR USE IN  
SPLICEOSOME MEDIATED RNA TRANS-SPLICING IN PLANTS

<130> A31304-B-A-C 072874.0138

<140> 09/756,097

<141> 2001-01-08

<150> 09/158,863

<151> 1998-09-23

<150> 09/133,717

<151> 1998-08-13

<150> 09/087,233

<151> 1998-05-28

<150> 08/766,354

<151> 1996-12-13

<150> 60/008,317

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ttcctgca  
68

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<400> 18  
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<210> 23  
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<212> DNA  
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<212> DNA  
<213> *Homo sapien*

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<212> DNA  
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<220>  
<223> Oligonucleotide primer complimentary to the  
Escherichia coli lacZ gene

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<210> 30  
<211> 38  
<212> DNA  
<213> Artificial Sequence



<220>

<223> Oligonucleotide primer complimentary to the  
Escherichia coli lacZ gene

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<210> 31

<211> 38

<212> DNA

<213> Artificial Sequence

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<223> Oligonucleotide primer complimentary to the  
Escherichia coli lacZ gene

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38

<210> 32

<211> 47

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide primer complimentary to the  
Escherichia coli lacZ gene

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<210> 33

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide primer complimentary to the beta  
HCG6 gene (accession #X00266)

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<210> 34

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<212> DNA  
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<220>  
<223> Oligonucleotide primer complimentary to the beta  
HCG6 gene (accession #X00266)

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38

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<212> DNA  
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<220>  
<223> Oligonucleotide primer complimentary to the beta  
HCG6 gene (accession #X00266)

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<210> 36  
<211> 37  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Oligonucleotide primer complimentary to the beta  
HCG6 gene (accession #X00266)

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<211> 22  
<212> DNA  
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<220>  
<223> Oligonucleotide primer complimentary to the  
Escherichia coli lacZ gene

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22

<210> 38  
<211> 21  
<212> DNA  
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<220>  
<223> Oligonucleotide primer complimentary to the  
Escherichia coli lacZ gene

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Escherichia coli lacZ gene

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35

<210> 42

<211> 30  
<212> DNA  
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<400> 42  
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30

<210> 43  
<211> 51  
<212> DNA  
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<400> 43  
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51

<210> 44  
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<400> 44  
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32

<210> 45  
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35

<210> 46  
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<400> 46  
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<210> 47  
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21

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<212> DNA  
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aactagaagg cacagtcgag g

21

<210> 53  
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<212> DNA  
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<220>  
<223> trans-spliced product containing Human chorionic gonadotropin gene 6 sequences and Corynebacterium diphtheriae diphtheria toxin A sequence

<400> 53  
gagatgttcc agggcgtgat gatg  
24

<210> 54  
<211> 127  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> PTM intramolecular base paired stem

<221> misc\_feature  
<222> (57)...(70)  
<223> Loop comprising a combination of 14 nucleotides according to specification

<400> 54  
gcuagccugg gacaaggaca cugcuucacc cgguuaguag accacagccc ugagccnnnn  
60  
nnnnnnnnnn aucguuaacu aaauaacuac uaacuggggug aacuucuguu uuuuucucga  
120  
gcugcag  
127

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<212> RNA  
<213> Artificial Sequence

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<221> misc\_feature  
<222> (57)...(70)  
<223> Loop comprising a combination of 14 nucleotides

according to specification

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gcuagccugg gacaaggaca cugcuucacc cgguuaguag accacagccc ugagccnnnn  
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120  
gcugcag  
127

<210> 56

<211> 127

<212> RNA

<213> Artificial Sequence

<220>

<223> PTM intramolecular base paired stem

<221> misc\_feature

<222> (57)...(70)

<223> Loop comprising a combination of 14 nucleotides  
according to specification

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120  
gcugcag  
127

<210> 57

<211> 132

<212> DNA

<213> Artificial Sequence

<220>

<223> trans-spliced product containing Human chorionic  
gonadotropin gene 6 sequences and Corynebacterium  
diphtheriae diphtheria toxin A sequences

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120  
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<223> Artificial Sequence derived from Escherichia coli  
lacZ gene

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<220>  
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lacZ gene

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<210> 60  
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<212> DNA  
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<220>  
<223> Artificial Sequence derived from Escherichia coli  
lacZ gene

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<210> 61  
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<220>  
<223> trans-spliced product containing Escherichia coli  
lacZ gene sequences and Human chorionic



gonadotropin gene 6 exon 2 sequences

<400> 61

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25

<210> 62

<211> 286

<212> DNA

<213> Artificial Sequence

<220>

<223> trans-spliced product containing Escherichia coli  
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286

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<211> 196

<212> DNA

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<220>

<223> trans-spliced product containing Escherichia coli  
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196

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<211> 420

<212> DNA  
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transmembrane regulator-derived sequences and His  
tag sequence

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120  
tgatgattat gggagaactg gagccttcag agggtaaaat taagcacagt ggaagaattt  
180  
cattctgttc tcagttttcc tggattatgc ctggcaccat taaagaaaat atcatctttg  
240  
gcggccgcca ctgtgctgga tatctgcaga attccaccac actggactag tggatccgag  
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<210> 66  
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transferase

<400> 66  
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5

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<211> 15

<212> DNA

<213> Artificial Sequence

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<223> Artificial sequence comprising sequences derived  
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<400> 67

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<210> 68

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<223> Artificial sequence comprising sequences derived  
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<211> 120

<212> DNA

<213> Artificial Sequence

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<223> Binding domain of PTM

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<212> DNA

<213> Artificial Sequence

<220>

<223> Spacer sequence of PTM

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<210> 71

<211> 47

<212> DNA

<213> Artificial Sequence

<220>

<223> Branch point, pyrimidine tract and acceptor splice  
site of PTM

<400> 71

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47

<210> 72

<211> 70

<212> DNA

<213> Artificial Sequence

<220>

<223> Donor site and spacer sequence of PTM

<400> 72

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gatccaccgg

70

<210> 73

<211> 260

<212> DNA

<213> Artificial Sequence

<220>

<223> Binding domain of spacer sequence

<400> 73

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120

ctggaaaact gataacacaa tgaaattctt ccactgtgct taaaaaaacc ctcttgaatt  
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<210> 75  
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<220>  
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<210> 78  
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<211> 23  
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<210> 83  
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<210> 84  
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<400> 84  
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tatgatgaaa a  
71

<210> 87  
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<220>  
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66

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<220>  
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<400> 88



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323

<210> 103  
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<220>  
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